

DETAIL "B"

I" X 1/2" FLAT BAR

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COVER

FLAT BAR

DETAIL "A"

NEOPRENE GASKET SHALL BE MADE FROM 3" STRIPS CUT AT A 45° ANGLE. USE A 4" STRIP

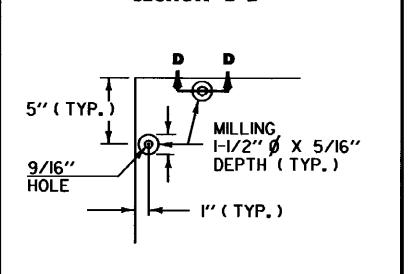
NEOPRENE GASKET SHALL BE
MADE FROM 3" STRIPS CUT AT
A 45° ANGLE. USE A 4" STRIP
WITH A BUTT JOINT ALONG THE
T-BAR ON DOUBLE PULLBOXES.

GASKET DETAIL

MILL 1-1/2" Ø MILL 5/16" DEPTH 9/16"

| 1/2" | SECTION D-D

COVER



BOLT / MILLING DETAIL

COVER TO BE HELD IN PLACE BY 2 (OR 4) STAIN-LESS STEEL HEX HEAD BOLTS (NOT SHOWN)

COVER W/
GASKET

OF

ALL JUN
OR TAPE
ANGULAR
NO OUTW

* DIMENSIONS A THRU C AS SHOWN ON THE PLANS. (MINIMUM 18" X 12" X 12" OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE)

I-I/2" MILLING (TYP.)

PULLBOX COVER

BEND RAD. = 6 TIMES
CONDUIT I.D. (TYPICAL)
(MIN.- 12" R.)

ALL JUNCTION BOXES SHALL HAVE EITHER STRAIGHT
OR TAPERED SIDES (SMALLER SQUARE OR RECTANGULAR DIMENSION AT THE TOP). THERE SHALL BE
NO OUTWARD PROTRUDING LIPS AT THE TOP OF THE

FLUSH IN PEDESTRIAN AREAS OR WHERE

I"-2" ABOVE GROUND IN OTHER AREAS

EXPOSED TO PLOWING OR TRAFFIC

JUNCTION BOX

(SHAPE MAY VARY SLIGHTLY WITH MANUFACTURER)

LOGO APPLICATION BY MANUFACTURER WITH TEXT AS SHOWN ON PLANS.

*** ALTERNATE LOGOS
SIGNAL
ELECTRIC
LIGHTING

ALL PULLBOX COVERS SHALL BE SKID RESISTANT.
ALL COVERS SHALL HAVE THE LOGO PUNCHED OR
STAMPED INTO A FLAT RECTANGLAR AREA. MINIMUM
LETTER HEIGHT IS 1/2", MINIMUM DEPTH IS 1/16".
DOUBLE PULLBOXES REQUIRE ONLY ONE LOGO.

TYP. ALL HOLES IN THE COVER SHALL BE 9/16" IN DIA.

PULLBOX COVER & LOGO DETAILS

JUNCTION BOX.

- 1. ALL PULLBOXES SHALL BE CONSTRUCTED WITH CONCRETE. CLASS B.
- 2. CONDUIT SIZE AS SHOWN ON THE PLANS.
- 3. EXCAVATION FOR THE UNITS SHALL INCLUDE EXCAVATION OF AN AREA ONE FOOT OUTSIDE THE UNITS AND EXTENDING ONE FOOT BELOW THE FINISH GRADE OF THE BOTTOM OF THE UNITS. ONE FOOT OF GRANULAR MATERIAL SHALL BE PLACED IN THE EXCAVATED AREA AND PROPERLY COMPACTED PRIOR TO INSTALLATION. WHERE NECESSARY AND AT THE DISCRETION OF THE ENGINEER, A DRAINAGE PIPE (MINIMUM 3'' PERFORATED PVC) SHALL BE PROVIDED FROM THE UNIT TO THE NEAREST APPROPRIATE OUTLET. DRAINAGE WORK SHALL NOT BE PAID DIRECTLY, BUT WILL BE CONSIDERED PART OF THE PULLBOX OR JUNCTION BOX ITEM.
- 4. ALL EXPOSED METAL HARDWARE, INCLUDING PULLBOX COVERS, FRAMES & ANGLES, SHALL BE GALVANIZED OR STAINLESS STEEL.
- 5. ALL CONDUIT SHALL ENTER JUNCTION BOXES FROM THE BOTTOM, NOT THROUGH THE SIDE WALL.
- 6. CONDUITS SHALL NOT ENTER DOUBLE PULLBOXES, DIRECTLY UNDER THE "T" BAR.
- 7. THE PRY SLOT AND THE COVER GAPS SHALL BE FILLED WITH CAULKING JUST PRIOR TO PROJECT COMPLETION.
- 8. WHEN INSTALLED ON SLOPES, PULLBOXES AND JUNCTION BOXES SHALL BE TIPPED TO MATCH THE EXISTING SLOPE UP TO A 1 ON 4 SLOPE. ON STEEPER SLOPES, THEY SHALL BE INSTALLED AS ON A 1 ON 4 SLOPE. A SUFFICIENT AMOUNT OF THE EXCAVATED MATERIAL SHALL BE USED TO SHAPE AROUND THE LOW SIDE OF THE BOX SUCH THAT THE MAXIMUM EXPOSURE IS 2''. THE MATERIAL SHALL BE TAPERED OVER AN AREA EXTENDING ABOUT 5' FROM THE BOX. IF SUFFICIENT MATERIAL IS NOT AVAILABLE. MATERIAL MEETING THE REQUIREMENTS OF EARTH BORROW (SUBSECTION 703.02) SHALL BE USED. PAYMENT SHALL BE CONSIDERED PART OF THE PULL-BOX OR JUNCTION BOX ITEM.
- 9. ALL COVERS SHALL BE FLUSH WITH THE BOXES AND FRAMES.
- 10. ALL CONDUITS ENTERING A PULLBOX OR JUNCTION BOX SHALL HAVE BUSHINGS TO PROTECT THE CABLES.

I"X I/2" FLAT BAR LEAVE I-1/2" GAP FOR PRY SLOT PRY SLOT (ONE SIDE ONLY) (FILL WITH CAULKING) MILLING (FILL WITH CAULKING) 3/4" STEEL COVER PLATE 22" SQUARE CLOSED END FERRULE (1/2" X 1") ~ I/8" NEOPRENE GASKET WITH WELDED TO ANGLE IRON 2 LAYERS OF I/I6" X 3" BUTYL TACK WELD COAT SCREW & FERRULE THREADS RUBBER TAPE (OVER AND UNDER THE GASKET) WITH 'NEVER SEIZE' COMPOUND OR AN ANTI-OXIDENT. 4" X 4" X 1/4" ANGLE IRON OPTIONAL 1/2" X 4" STUD MINIMUM 2 PER 28" SIDE 4.0 MINIMUM 5 PER 50" SIDE -TIE-DOWN TABS 5" X I" X I/4" BENT MINIMUM 2 PER 28" SIDE MINIMUM 5 PER 50" SIDE CONCRETE CLASS - B

DETAIL "C"

AGENCY CANONT AGENCY

NONE

OTHER STDS.

REQUIRED

STANDARD

E-173

P

PULLBOXES AND JUNCTION BOXES

SEPT. 10, 1987 - DATE OF ORIGINAL ISSUE

APRIL 1, 1989 - REVISED COVER DIMENSIONS
MAY 26, 1989 - FHWA COMMENTS

NOV. 17, 1993 - MAJOR REVISIONS, STANDARDIZATION OF PULLBOX COVERS

AUG. 9, 1995 - REVISED NOTE 8, CHANGED LOGO

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

TRAFFIC AND SAFETY ENGINEER

DIRECTOR OF ENGINEERING

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